

=> d his

(FILE 'HOME' ENTERED AT 10:08:23 ON 06 NOV 2008)

FILE 'REGISTRY' ENTERED AT 10:08:34 ON 06 NOV 2008

L1 STRUCTURE UPLOADED

L2 2 S L1

L3 54 S L1 FULL

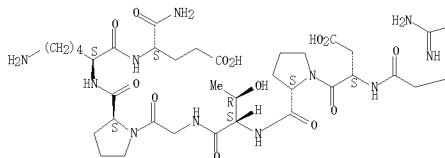
=> d 1-54 ide can

L3 ANSWER 1 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1029915-78-3 REGISTRY
ED Entered STN: 23 Jun 2008
CN L- α -Glutamine, 1-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-L-prolyl-L-threonyl-L-seryl-L-glutaminyl-L-seryl-L-arginylglycyl-L- α -aspartyl-L-prolyl-L-threonylglycyl-L-prolyl-L-lysyl- (CA INDEX NAME)
FS PROTEIN SEQUENCE; STEREOSEARCH
MF C79 H108 N20 O27
SR CA
LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

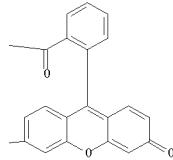
Absolute stereochemistry.

PAGE 1-A



L3 ANSWER 1 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-C

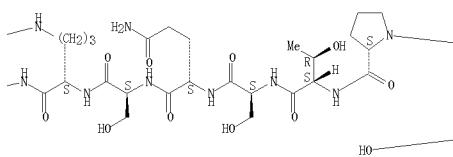


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

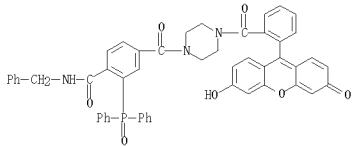
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:47217

PAGE 1-B



L3 ANSWER 2 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1027211-46-6 REGISTRY
ED Entered STN: 11 Jun 2008
CN Benzamide, 2-(diphenylphosphinyl)-4-[[4-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-1-piperazinyl]carbonyl]-N-(phenylmethyl)- (CA INDEX NAME)
MF C51 H40 N3 O7 P
SR CA
LC STN Files: CA, CAPLUS, CASREACT

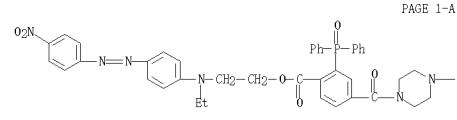


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

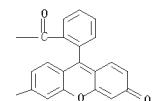
REFERENCE 1: 148:579694

L3 ANSWER 3 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1027211-45-5 REGISTRY
ED Entered STN: 11 Jun 2008
CN Benzoic acid, 2-(diphenylphosphinyl)-4-[[4-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-1-piperazinyl]carbonyl]-, 2-[ethyl[4-[2-(4-nitrophenyl)diazenyl]phenyl]amino]ethyl ester (CA INDEX NAME)
MF C60 H49 N3 O10 P
SR CA
LC STN Files: CA, CAPLUS, CASREACT



PAGE 1-A

PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 148:579694

L3 ANSWER 4 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 1027211-39-7 REGISTRY

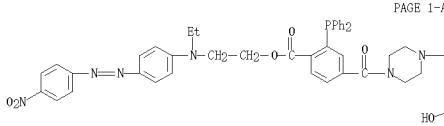
ED Entered STN: 11 Jun 2008

CN Benzoic acid, 2-[(diphenylphosphino)-4-[[4-[2-(6-hydroxy-3-oxo-3H-xanthan-9-yl)benzoyl]-1-piperazinyl]carbonyl]-, 2-ethyl[4-[2-(4-nitrophenyl)diazenyl]phenyl]amino]ethyl ester (CA INDEX NAME)

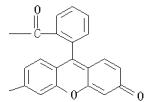
MF C60 H49 N6 O9 P

SR

LC STN Files: CA, CAPLUS, CASREACT

HO⁻

PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 148:579694

L3 ANSWER 5 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 1026898-62-3 REGISTRY

ED Entered STN: 10 Jun 2008

CN INDEX NAME NOT YET ASSIGNED

FS PROTEIN SEQUENCE; STEREOSEARCH

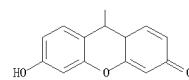
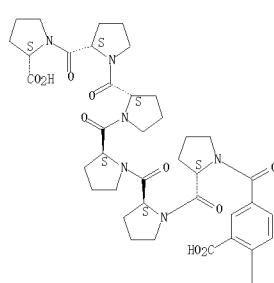
MF C51 H56 N6 O13

SR Other Sources

Database: ChemSpider (ChemZoo, Inc.)

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 ANSWER 6 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 946062-51-7 REGISTRY

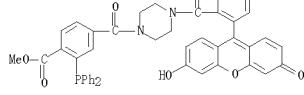
ED Entered STN: 05 Sep 2007

CN Benzoic acid, 2-[(diphenylphosphino)-4-[[4-[2-(6-hydroxy-3-oxo-3H-xanthan-9-yl)benzoyl]-1-piperazinyl]carbonyl]-, methyl ester (CA INDEX NAME)

MF C45 H35 N2 O7 P

SR

LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 148:511223

REFERENCE 2: 147:271848

L3 ANSWER 7 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 930599-13-6 REGISTRY

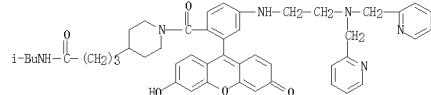
ED Entered STN: 17 Apr 2007

CN 4-piperidinobutanamide, 1-[4-[[2-[bis(2-pyridinylmethyl)amino]ethyl]amino]-2-(6-hydroxy-3-oxo-3H-xanthan-9-yl)benzoyl]-N-(2-methylpropyl)- (CA INDEX NAME)

MF C47 H52 N6 O5

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:575083

L3 ANSWER 8 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 909259-15-0 REGISTRY

ED Entered STN: 02 Oct 2006

CN 4-Piperidinebutanoic acid, 1-[4-[[2-[bis(2-pyridinylmethyl)amino]ethyl][[4-nitrophenyl)sulfonyl]amino]-2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester (CA INDEX NAME)

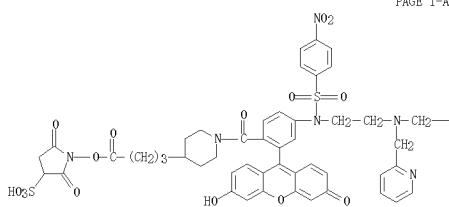
OTHER CA INDEX NAMES:

CN 3-((4-nitrophenylsulfonyl)amino)-1-[4-[[2-[bis(2-pyridinylmethyl)amino]ethyl][[4-nitrophenyl)sulfonyl]amino]-2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-4-piperidiny-1-oxobutoxy]-2,5-dioxo- (9CI)

MF C53 H49 N7 O15 S2

SR CA

LC STN Files: CA, CAPLUS, CASREACT



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:309590

L3 ANSWER 10 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 909259-04-7 REGISTRY

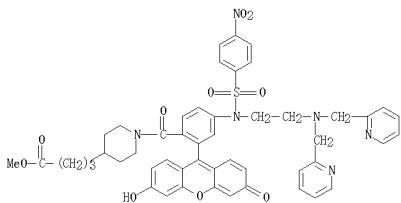
ED Entered STN: 02 Oct 2006

CN 4-Piperidinebutanoic acid, 1-[4-[[2-[bis(2-pyridinylmethyl)amino]ethyl][[4-nitrophenyl)sulfonyl]amino]-2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-, methyl ester (CA INDEX NAME)

MF C50 H48 N6 O10 S

SR CA

LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:309590

L3 ANSWER 9 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 909259-09-2 REGISTRY

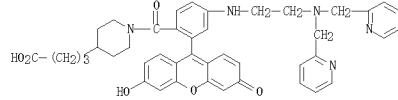
ED Entered STN: 02 Oct 2006

CN 4-Piperidinebutanoic acid, 1-[4-[[2-[bis(2-pyridinylmethyl)amino]-2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]- (CA INDEX NAME)

MF C43 H43 N5 O6

SR CA

LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:375083

REFERENCE 2: 145:309590

L3 ANSWER 11 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 908371-22-2 REGISTRY

ED Entered STN: 25 Sep 2006

CN Hexadecanoic acid, (1R)-1-[[[[2-[[1-[4,5-diamino-2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]-4-piperidinyl]carbonyl]amino]ethoxy]hydroxymethyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

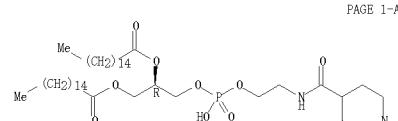
FS STEREOSEARCH

MF C65 H97 N10 O13 P

SR CA

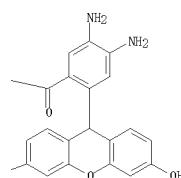
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



H0⁻

PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:288088

L3 ANSWER 12 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 908371-21-1 REGISTRY

ED Entered STN: 25 Sep 2006

CN Hexadecanoic acid, (IR)-1-[[[2-[[1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-5-nitrobenzoyl]-4-piperidinyl]carbonyl]amino]ethoxy]hydroxymethylphosphoryl]oxy[methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

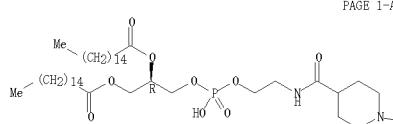
FS STEREOSEARCH

MF C65 H95 N4 O15 P

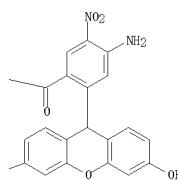
SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

 HO^-

PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:288088

L3 ANSWER 13 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 908371-20-0 REGISTRY

ED Entered STN: 25 Sep 2006

CN 4-Piperidinocarboxylic acid, 1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-5-nitrobenzoyl]-2,5-dioxo-1-pyrrolidinyl ester (CA INDEX NAME)

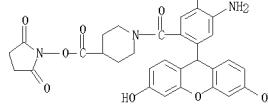
OTHER CA INDEX NAMES:

CN Piperidine, 1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-5-nitrobenzoyl]-4-[(2,5-dioxo-1-pyrrolidinyl)oxyl]carbonyl]-(9CI)

MF C30 H26 N4 O10

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:288088

L3 ANSWER 14 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 908371-19-7 REGISTRY

ED Entered STN: 25 Sep 2006

CN 4-Piperidinocarboxylic acid, 1-[[5-(3,6-dihydroxy-9H-xanthen-9-yl)-1H-penzo[1,2-b]azol-6-yl]carbonyl]- (CA INDEX NAME)

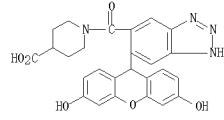
OTHER CA INDEX NAMES:

CN 4-Piperidinocarboxylic acid, 1-[[6-(3,6-dihydroxy-9H-xanthen-9-yl)-1H-penzo[1,2-b]azol-5-yl]carbonyl]- (9CI)

MF C26 H22 N4 O6

SR CA

LC STN Files: CA, CAPLUS

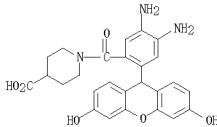


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:288088

L3 ANSWER 15 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 908371-18-6 REGISTRY
ED Entered STN: 25 Sep 2006
CN 4-Piperidinocarboxylic acid, 1-[4,5-diamino-2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]- (CA INDEX NAME)
MF C26 H25 N3 O6
SR CA
LC STN Files: CA, CAPLUS

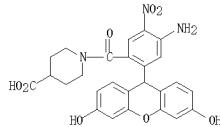


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:288088

L3 ANSWER 16 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 908371-17-5 REGISTRY
ED Entered STN: 25 Sep 2006
CN 4-Piperidinocarboxylic acid, 1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-5-nitrobenzoyl]- (CA INDEX NAME)
MF C26 H23 N3 O8
SR CA
LC STN Files: CA, CAPLUS

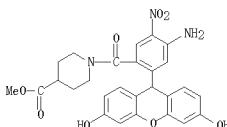


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:288088

L3 ANSWER 17 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 908371-16-4 REGISTRY
ED Entered STN: 25 Sep 2006
CN 4-Piperidinocarboxylic acid, 1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-5-nitrobenzoyl]-, methyl ester (CA INDEX NAME)
MF C27 H25 N3 O8
SR CA
LC STN Files: CA, CAPLUS



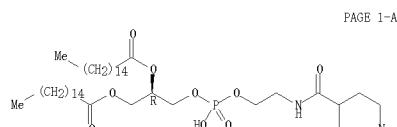
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:288088

L3 ANSWER 18 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 908371-15-3 REGISTRY
ED Entered STN: 25 Sep 2006
CN Hexadecanoic acid, (1R)-1-[[[[[2-[[1-[2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]-4-piperidinyl]carbonylamino]ethoxy]hydroxyphosphinyl]oxyl)methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C63 H95 N3 O13 P
SR CA
LC STN Files: CA, CAPLUS

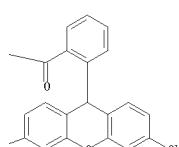
Absolute stereochemistry.



PAGE 1-A

H0-

PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:288088

L3 ANSWER 19 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 908371-14-2 REGISTRY

ED Entered STN: 25 Sep 2006

CN 4-Piperidinocarboxylic acid, 1-[2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]-

, 2,5-dioxo-1-pyrrolidinyl ester (CA INDEX NAME)

OTHER CA INDEX NAMES:

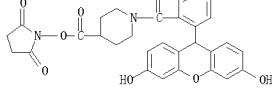
CN Piperidine, 1-[2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]-4-[(2,5-dioxo-1-

pyrrolidinyl)oxy]carbonyl]- (9CI)

MF C20 H26 N2 O8

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:288088

L3 ANSWER 20 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 908371-13-1 REGISTRY

ED Entered STN: 25 Sep 2006

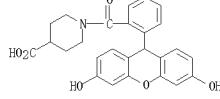
CN 4-Piperidinocarboxylic acid, 1-[2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]-

(CA INDEX NAME)

MF C20 H23 N O6

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:288088

L3 ANSWER 21 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN S76752-73-7 REGISTRY

ED Entered STN: 14 Mar 2006

CN 3H-Xanthene-3-one, 6-hydroxy-9-[2-methoxy-4-(1-pyrrolidinylcarbonyl)phenyl]- (CA INDEX NAME)

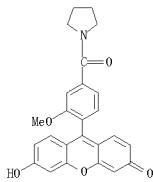
OTHER CA INDEX NAMES:

CN Pyrrolidine, 1-[4-(6-hydroxy-3-oxo-3H-xanthen-9-yl)-3-methoxybenzoyl]- (9CI)

MF C25 H21 N O5

SR CA

LC STN Files: CA, CAPLUS, CASREACT



2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:164648

REFERENCE 2: 144:234605

L3 ANSWER 22 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN S61143-25-1 REGISTRY

ED Entered STN: 19 Aug 2005

CN Propionic acid, 2,2-dimethyl-, 9-[2-[[[2-[[bis(1-methylethyl)amino](2-

cyanomethoxy)phosphinoloxyl]ethyl]methylamino]carbonyl]-4,5-dichlorophenyl]-

2,7-dichloro-3-oxo-3H-xanthen-6-yl ester (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Propionic acid, 2,2-dimethyl-, 9-[2-[6-[bis(1-methylethyl)amino]-9-cyano-2-

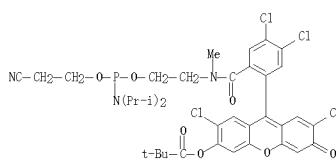
methyl-1-oxo-5,7-dioxa-2-aza-6-phosphonon-1-yl]-4,5-dichlorophenyl]-2,7-

dichloro-3-oxo-3H-xanthen-6-yl ester (9CI)

MF C37 H40 Cl4 N3 O7 P

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

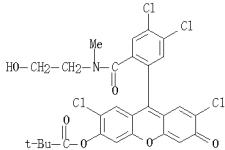
2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:334040

REFERENCE 2: 143:169163

L3 ANSWER 23 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN S61143-24-0 REGISTRY
ED Entered STN: 19 Aug 2006
CN Propanoic acid, 2,2-dimethyl-, 2,7-dichloro-9-[4,5-dichloro-2-[(2-hydroxyethyl)methylamino]carbonyl]phenyl]-3-oxo-3H-xanthen-6-yl ester (CA INDEX NAME)
MF C28 H23 Cl4 N 06
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL



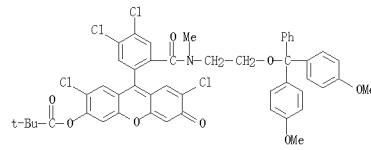
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:334040

REFERENCE 2: 143:169183

L3 ANSWER 24 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN S61143-23-9 REGISTRY
ED Entered STN: 19 Aug 2006
CN Propanoic acid, 2,2-dimethyl-, 9-[2-[[2-[bis(4-methoxyphenyl)phenylmethoxyethyl]methylamino]carbonyl]-4,5-dichlorophenyl]-2,7-dichloro-3-oxo-3H-xanthen-6-yl ester (CA INDEX NAME)
MF C49 H41 Cl4 N 06
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL



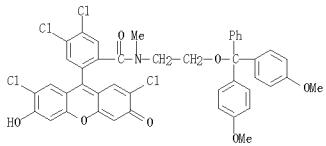
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:334040

REFERENCE 2: 143:169183

L3 ANSWER 25 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN S61143-22-8 REGISTRY
ED Entered STN: 19 Aug 2006
CN Benzamide, N-[2-[bis(4-methoxyphenyl)phenylmethoxyethyl]-4,5-dichloro-2-(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)-N-methyl- (CA INDEX NAME)
MF C44 H33 Cl4 N 07
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL



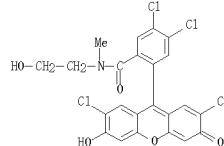
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:334040

REFERENCE 2: 143:169183

L3 ANSWER 26 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN S61143-20-6 REGISTRY
ED Entered STN: 19 Aug 2006
CN Benzamide, 4,5-dichloro-2-(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)-N-(2-hydroxyethyl)-N-methyl- (CA INDEX NAME)
MF C23 H15 Cl4 N 05
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:334040

REFERENCE 2: 143:169183

L3 ANSWER 27 OF 54 REGISTRY COPYRIGHT 2008 ACS ON STN
RN 775505-49-4 REGISTRY
ED Entered STN: 07 Nov 2004
CN Benzamide, N,N-bis[2-[2-(2-(2-hydroxyethoxy)ethoxy]ethoxy]ethyl]-2-(2,4,5,7-tetrahydro-6-hydroxy-3-oxo-3H-xanthen-9-yl) - (CA INDEX NAME)
MF C36 H41 Br 4 N 012
CI C006
SR CA
CR CA

L3 ANSWER 28 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 758641-76-8 REGISTRY
ED Entered STN: 08 Oct 2004
CN Benzamide, 2,3,4,5-tetrachloro-N,N-bis(14-hydroxy-3,6,9,12-tetraoxatetradec-1-yl)-6-(2,4,5,7-tetrabromo-6-hydroxy-3-oxo-3H-xanthen-9-yl)- (CA INDEX NAME)
MF C40 H45 Br4 Cl4 N O14
CI COM
SR CA

PAGE 1-A

PAGE 1-A

$$\text{HO}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{N}(\text{Br})-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{N}(\text{H}_2\text{O})$$

PAGE 1-B

PAGE 1-B

$$\equiv 0$$

The chemical structure shows a central core consisting of two fused five-membered rings (lactones) sharing an oxygen atom. Each five-membered ring has a carbonyl group (C=O) at one position and a bromine atom (Br) at another. The core is substituted with four phenyl groups at the 1, 3, 5, and 7 positions. Each phenyl group is further substituted with a chlorine atom (Cl) at the para position.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 ANSWER 29 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 744143-97-3 REGISTRY
 ED Entered STN: 13 Sep 2004
 CN 5H-Xanthan-3-one, 9-[2-[[3,7-bis(dimethylamino)-10H-phenothiazin-10-yl]carbonylphenyl]-2,4,5,7-tetrabromo-6-hydroxy - (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 10H-Phenothiazine-5,7-diamine, N,N,N',N'-tetramethyl-10-[2-(2,4,5,7-tetrabromo-6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl] - (9CI)
 MF C36 H25 Br4 N3 O4 S
 CI COM
 SR CA

L3 ANSWER 50 OF 54 REGISTRY COPYRIGHT 2008 ACS ON STN
 RN 46200-36-4 REGISTRY
 ED Entered STN+ 22 Jan 2003
 A4 4-Piperidinocarboxylic acid, 1-[2-(3-hydroxy-6-methoxy-9H-xanthen-9-yl)benzoyl] (A4 INDEX NAME)
 MF C₂₇ H₃₂ N O₆
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

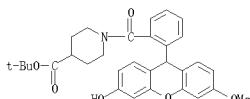
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES

L3 ANSWER 31 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 480067-88-7 REGISTRY
ED Entered STN: 22 Jan 2003
CN 4-Piperidinocarboxylic acid, 1-[2-(3-hydroxy-6-methoxy-9H-xanthen-9-yl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)
MF C31 H33 N O6
SR CA
LC STN Files: CA, CAPLUS, CASREACT

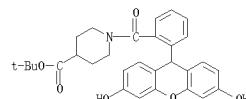


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:74690

L3 ANSWER 32 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 480067-81-0 REGISTRY
ED Entered STN: 22 Jan 2003
CN 4-Piperidinocarboxylic acid, 1-[2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)
MF C30 H31 N O6
SR CA
LC STN Files: CA, CAPLUS, CASREACT

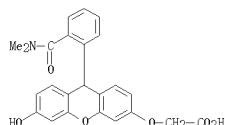


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:74690

L3 ANSWER 33 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 480067-76-3 REGISTRY
ED Entered STN: 22 Jan 2003
CN Acetic acid, 2-[[9-[2-[(dimethylamino)carbonyl]phenyl]-6-hydroxy-9H-xanthen-3-yl]oxyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetic acid, [[9-[2-[(dimethylamino)carbonyl]phenyl]-6-hydroxy-9H-xanthen-3-yl]oxyl- (9CI)
MF C24 H21 N O6
SR CA
LC STN Files: CA, CAPLUS, CASREACT

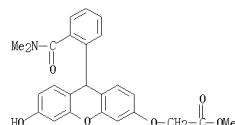


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:74690

L3 ANSWER 34 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 480067-71-8 REGISTRY
ED Entered STN: 22 Jan 2003
CN Acetic acid, 2-[[9-[2-[(dimethylamino)carbonyl]phenyl]-6-hydroxy-9H-xanthen-3-yl]oxyl-, methyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetic acid, [[9-[2-[(dimethylamino)carbonyl]phenyl]-6-hydroxy-9H-xanthen-3-yl]oxyl-, methyl ester (9CI)
MF C25 H23 N O6
SR CA
LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:74690

L3 ANSWER 35 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 455312-79-5 REGISTRY

ED Entered STN: 26 Sep 2002

CN 3H-Xanthen-3-one, 6-hydroxy-9-[2-[(4-(2-hydroxyethyl)-1-piperazinyl)carbonyl]phenyl]- (CA INDEX NAME)

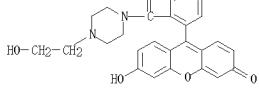
OTHER CA INDEX NAMES:

CN 1-Piperazineethanol, 4-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]- (9CI)

MF C26 H24 N2 O6

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROF' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:213089

L3 ANSWER 36 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 455312-77-3 REGISTRY

ED Entered STN: 26 Sep 2002

CN 3H-Xanthen-3-one, 9-[2-[(4-ethyl-1-piperazinyl)carbonyl]phenyl]-6-hydroxy- (CA INDEX NAME)

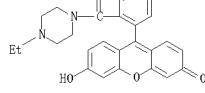
OTHER CA INDEX NAMES:

CN Piperazine, 1-ethyl-4-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]- (9CI)

MF C26 H24 N2 O4

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROF' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:213089

L3 ANSWER 37 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 455312-75-1 REGISTRY

ED Entered STN: 26 Sep 2002

CN 3H-Xanthen-3-one, 6-hydroxy-9-[2-[(4-methyl-1-piperazinyl)carbonyl]phenyl]- (CA INDEX NAME)

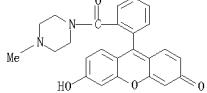
OTHER CA INDEX NAMES:

CN Piperazine, 1-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-4-methyl- (9CI)

MF C25 H22 N2 O4

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROF' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:213089

L3 ANSWER 38 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

RN 455312-73-9 REGISTRY

ED Entered STN: 26 Sep 2002

CN 3H-Xanthen-3-one, 6-hydroxy-9-[2-[(1-piperazinyl)carbonyl]phenyl]- (CA INDEX NAME)

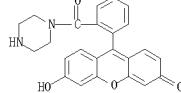
OTHER CA INDEX NAMES:

CN Piperazine, 1-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]- (9CI)

MF C24 H20 N2 O4

SR CA

LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROF' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

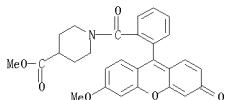
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 148:579694

REFERENCE 2: 147:271848

REFERENCE 3: 137:213089

L3 ANSWER 42 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 442151-54-4 REGISTRY
ED Entered STN: 02 Aug 2002
CN 4-Piperidinocarboxylic acid, 1-[2-(6-methoxy-3-oxo-3H-xanthen-9-yl)benzoyl]-, methyl ester (CA INDEX NAME)
MF C28 H25 N O6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

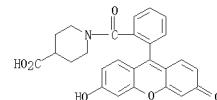


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:95164

L3 ANSWER 43 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 442151-52-2 REGISTRY
ED Entered STN: 02 Aug 2002
CN 4-Piperidinocarboxylic acid, 1-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]- (CA INDEX NAME)
MF C26 H21 N O6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

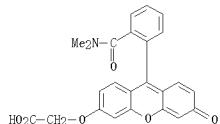


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:95164

L3 ANSWER 44 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 442151-50-0 REGISTRY
ED Entered STN: 02 Aug 2002
CN Acetic acid, 2-[[9-[2-[(dimethylamino)carbonyl]phenyl]-3-oxo-3H-xanthen-6-yl]oxy]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetic acid, [[9-[2-[(dimethylamino)carbonyl]phenyl]-3-oxo-3H-xanthen-6-yl]oxy]- (9CI)
MF C24 H19 N O6
SR CA
LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

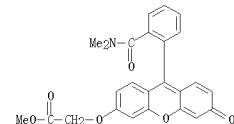


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:95164

L3 ANSWER 45 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 442151-48-6 REGISTRY
ED Entered STN: 02 Aug 2002
CN Acetic acid, 2-[[9-[2-[(dimethylamino)carbonyl]phenyl]-3-oxo-3H-xanthen-6-yl]oxy]-, methyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetic acid, [[9-[2-[(dimethylamino)carbonyl]phenyl]-3-oxo-3H-xanthen-6-yl]oxy]-, methyl ester (9CI)
MF C25 H21 N O6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

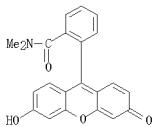


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:95164

L3 ANSWER 46 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 442151-46-4 REGISTRY
ED Entered STN: 02 Aug 2002
CN Benzamide, 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)-N,N-dimethyl- (CA INDEX NAME)
MF C22 H17 N 04
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

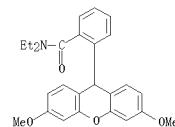


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:95164

L3 ANSWER 47 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 110985-62-1 REGISTRY
ED Entered STN: 31 Oct 1987
CN Benzamide, 2-(3,6-dimethoxy-9H-xanthen-9-yl)-N,N-diethyl- (CA INDEX NAME)
MF C26 H27 N 04
SR CA
LC STN Files: CA, CAPLUS

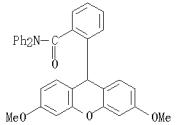


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:187437

L3 ANSWER 48 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 110943-63-0 REGISTRY
ED Entered STN: 24 Oct 1987
CN Benzamide, 2-(3,6-dimethoxy-9H-xanthen-9-yl)-N,N-diphenyl- (CA INDEX NAME)
MF C34 H27 N 04
SR CA
LC STN Files: CA, CAPLUS

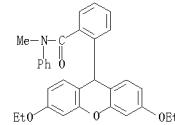


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:187437

L3 ANSWER 49 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 110943-60-7 REGISTRY
ED Entered STN: 24 Oct 1987
CN Benzamide, 2-(3,6-diethoxy-9H-xanthen-9-yl)-N-methyl-N-phenyl- (CA INDEX NAME)
MF C31 H29 N 04
SR CA
LC STN Files: CA, CAPLUS

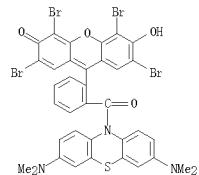


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:187437

L3 ANSWER 54 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
RN 52946-21-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 10H-Phenothiazine-3,7-diamine, N,N,N',N'-tetramethyl-10-[2-(2,4,5,7-tetrabromo-6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-, sodium salt (9CI)
(CA INDEX NAME)
MF C36 H25 Br4 NS O4 S . Na
LC STN Files: CA, CAPLUS
CRN (744143-97-3)



● Na

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: S1:74803

=> fil cap1
FILE 'CPLUS' ENTERED AT 10:10:32 ON 06 NOV 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 6 Nov 2008 VOL 149 ISS 19
FILE LAST UPDATED: 4 Nov 2008 (20081104/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>
'FIONA' IS DEFAULT FORMAT FOR 'CPLUS' FILE

=> s 13
L4 19 L3

=> d 1-19 bib abs hitstr

L4 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2008:1071173 CAPLUS

DN 149:334040

TI Functionalized xanthene dyes used for formation conjugates with biomolecules, drug and toxins

IN Reddington, Mark; Lytle, Matt

PA BioResearch Technologies, Inc., USA

SO U.S. Pat. Appl. Publ., 58pp., Cont. of U.S. Ser. No. 824,175.

CODEN USXXCO

DT Patent

LA English

FAN. CNT 2

PATENT NO. KIND DATE APPLICATION NO. DATE

PI US 20080214811 A1 20080904 US 2008-36926 20080225

US 20050170363 A1 20050804 US 2004-824175 20040413

US 7344701 B2 20060318

PRAI US 2004-541686P P 20040203

US 2004-824175 A1 20040413

WO 2005-US3627 A 20050204

AB Optionally functionalized xanthene dyes are used for formation conjugates with biomols., drugs, toxins and the like. Thus, Rhodamine 6G N-methylaminoethanol-linked nucleoside was used for preparation controlled pore glass for solid phase oligonucleotide synthesis.

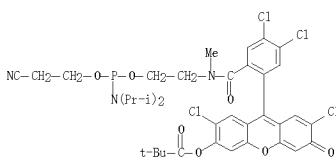
IT RL: ARG (Analytical reagent use); IMF (Industrial manufacture); ANST

(Analytical study); PREP (Preparation); USBS (Uses)

(functionalized xanthene dyes used for formation conjugates with biomols., drug and toxins)

RN 861143-25-1 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 9-[2-[[[2-[[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphinoloxylethyl]methylamino]carbonyl]-4,5-dichlorophenyl]-2,7-dichloro-3-oxo-3H-xanthan-6-yl ester (CA INDEX NAME)



IT 861143-20-6P 861143-22-8P 861143-23-9P

861143-24-0P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

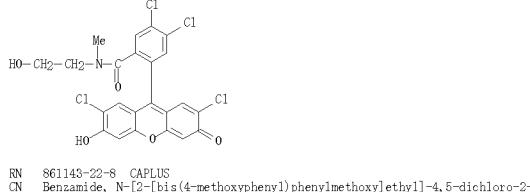
(functionalized xanthene dyes used for formation conjugates with biomols., drug and toxins)

RN 861143-20-6 CAPLUS

CN Benzamide, 4,5-dichloro-2-(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)-N-(2-hydroxyethyl)-N-methyl- (CA INDEX NAME)

L4 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

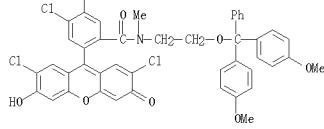
AN 2008:861143-22-8 CAPLUS



RN 861143-22-8 CAPLUS

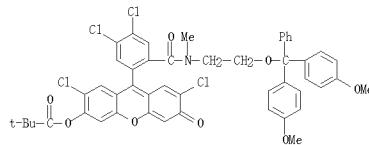
CN Benzamide, N-[2-[2-(4-methoxyphenyl)phenylmethoxyethyl]-4,5-dichloro-2-

(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)-N-methyl- (CA INDEX NAME)



RN 861143-23-9 CAPLUS

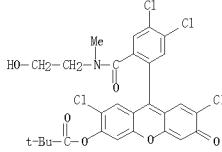
CN Propanoic acid, 2,2-dimethyl-, 9-[2-[[[2-[bis(4-methoxyphenyl)phenylmethoxyethyl]methylamino]carbonyl]-4,5-dichlorophenyl]-2,7-dichloro-3-oxo-3H-xanthen-6-yl ester (CA INDEX NAME)



RN 861143-24-0 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2,7-dichloro-9-[4,5-dichloro-2-[(2-hydroxyethyl)methylamino]carbonyl]phenyl]-3-oxo-3H-xanthen-6-yl ester (CA INDEX NAME)

L4 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L4 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2008:452147 CAPLUS

DN 149:47217

TI Using peptides to study the interaction between the p53 tetramerization domain and HIV-1 Tat

AU Gabizon, Ronen; Mor, Michal; Rosenberg, Masha M.; Britan, Lena; Hayouka, Zvi; Kotler, Moshe; Shaley, Deborah E.; Friedler, Assaf

CS Institute of Chemistry, The Hebrew University of Jerusalem, Jerusalem, 91904, Israel

SO Biopolymers (2008), 90(2), 105-116

CODEN: BIPMAA; ISSN: 0006-3525

PB John Wiley & Sons, Inc.

DT Journal

LA English

AB Peptides are valuable tools for studying protein-protein interactions, especially in cases of isolated protein domains and natively unfolded proteins. Here, we used peptides to quant. characterize the interaction between the natively unfolded HIV-1 Tat protein and the tetramerization domain of the cellular tumor suppressor protein p53. We used peptide mapping, fluorescence anisotropy, and NMR spectroscopy to perform a detailed structural and biophys. characterization of the interaction between the two proteins and elucidate its mol. mechanism, which have so far been studied using cell-based methods. We show that the p53 tetramerization domain, p53(326-355), binds directly to residues 1-35 and 47-57 in Tat. We have characterized the interaction between p53(326-355) and Tat(47-57) in detail. The p53 residues that are mainly involved in binding to Tat(47-57) are E343 and E349, which bind to the pos. charged arginine-rich motif of Tat by a partly electrostatic mechanism. All oligomerization states of p53(326-355) bind Tat(47-57) without inhibiting p53 tetramerization, since the residues in p53(326-355) that bind Tat(47-57) face away from the tetramerization interface. We conclude that p53 is able to bind Tat as a transcriptionally active tetramer.

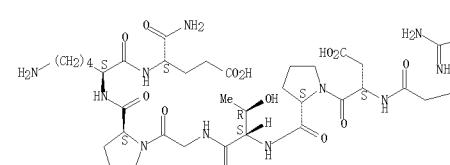
IT 1029915-78-3

RN 1029915-78-3 CAPLUS

TI L-glutamine, L-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-L-prolyl-L-threonyl-L-seryl-L-glutaminyl-L-seryl-L-arginylglycyl-L-aspartyl-L-prolyl-L-threonylglycyl-L-prolyl-L-lysyl- (CA INDEX NAME)

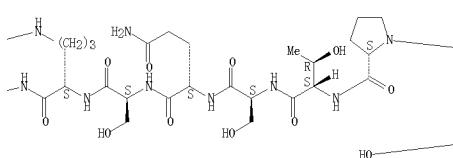
Absolute stereochemistry.

PAGE 1-A

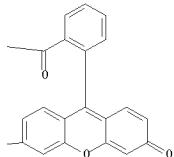


L4 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

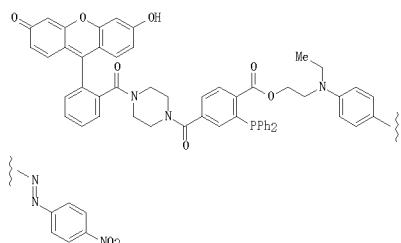


PAGE 1-C

RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

AN 2008:410952 CAPLUS
DN 148:579694
TI A FRET-based fluorogenic phosphine for live-cell imaging with the Staudinger ligation
AU Hangauer, Matthew J.; Bertozzi, Carolyn R.
CS Departments of Chemistry and Molecular and Cell Biology and Howard Hughes Medical Institute, University of California, Berkeley, CA, 94720, USA
SO Angewandte Chemie, International Edition (2008), 47(18), 2394-2397
CODEN: ACIBP6; ISSN: 1433-7851
PB Wiley-VCH Verlag GmbH & Co. KGaA
DT Journal
LA English
OS CASREACT 148:579694
GI



I

AB A fluorogenic phosphine (I) based on a FRET-quenching mechanism allows for live-cell imaging of azido sugars by the Staudinger ligation. This design strategy can accommodate numerous fluorophores and complementary acceptors, enabling extension to multicolor imaging.

IT 1027211-39-7

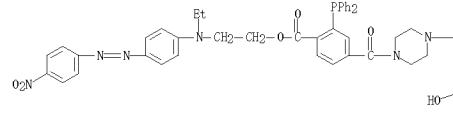
RL RCT (Analytical reagent use); BRU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses);
(FRET-based fluorogenic phosphine for live-cell imaging of azido sugars with Staudinger ligation)

RN 1027211-39-7 CAPLUS

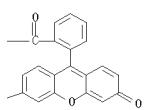
CN Benzoic acid, 2-(diphenylphosphinyl)-4-[[4-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-1-piperazinyl]carbonyl]-2-[ethyl[4-[2-(4-nitrophenyl)diazzenyl]phenyl]amino]ethyl ester (CA INDEX NAME)

L4 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

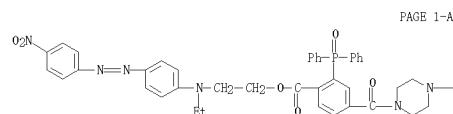


PAGE 1-B

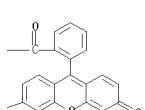


IT 1027211-45-5
RL: BYP (Byproduct); PRP (Properties); PREP (Preparation)
(FRET-based fluorogenic phosphine for live-cell imaging of azido sugars with Staudinger ligation)

RN 1027211-45-5 CAPLUS
CN Benzoic acid, 2-(diphenylphosphinyl)-4-[[4-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-1-piperazinyl]carbonyl]-2-[ethyl[4-[2-(4-nitrophenyl)diazzenyl]phenyl]amino]ethyl ester (CA INDEX NAME)



PAGE 1-B

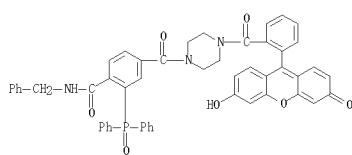


IT 1027211-46-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

L4 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
(FRET-based fluorogenic phosphine for live-cell imaging of azido sugars with Staudinger ligation)

RN 1027211-46-6 CAPLUS

CN Benzoic acid, 2-(diphenylphosphinyl)-4-[[4-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-1-piperazinyl]carbonyl]-N-(phenylmethyl)- (CA INDEX NAME)

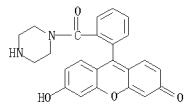


IT 455312-73-9

RL RCT (Reactant); RACT (Reactant or reagent)
(FRET-based fluorogenic phosphine for live-cell imaging of azido sugars with Staudinger ligation)

RN 455312-73-9 CAPLUS

CN 3H-Xanthen-3-one, 6-hydroxy-9-[2-(1-piperazinylcarbonyl)phenyl]- (CA INDEX NAME)

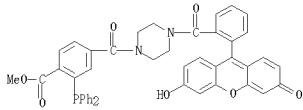


RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2008:302915 CAPLUS
 DN 148:511223
 TI Identification of palmitoylated mitochondrial proteins using a bio-orthogonal azido-palmitate analogue
 AU Kostick, Morris A.; Corvi, Maria M.; Keller, Bernd O.; Plummer, Greg; Prescher, Jennifer A.; Hangauer, Matthew J.; Bertozzi, Carolyn R.; Rajashankar, Girish; Wick, John R.; Berthiaume, Luc G.
 CS Department of Cell Biology, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, AB, Canada
 SO FASEB Journal (2008), 22(3), 721-728
 CODEN: FAJOCB; ISSN: 0892-6638
 PB Federation of American Societies for Experimental Biology
 DT Journal
 LA English
 OS CASREACT 148:511223
 AB Increased levels of circulating saturated free fatty acids, such as palmitate, have been implicated in the etiol. of type II diabetes and cancer. In addition to being a constituent of glycerolipids and a source of energy, palmitate also covalently attaches to numerous cellular proteins via a process named palmitylation. Recognized for its roles in membrane tethering, cellular signaling, and protein trafficking, palmitylation is also emerging as a potential regulator of metabolism. Indeed, we showed previously that the acylation of two mitochondrial proteins at their active site cysteine residues results in their inhibition. Herein, we sought to identify other palmitoylated proteins in mitochondria using a nonradioactive bio-orthogonal azido-palmitate analog that can be selectively derivatized with various tagged triarylphosphines. Our results show that, like palmitate, incorporation of azido-palmitate occurred on mitochondrial proteins via thioester bonds at sites that could be competed out by palmitoyl-CoA. Using this method, we identified 21 putative palmitoylated proteins in the rat liver mitochondrial matrix, a compartment not recognized for its content in palmitoylated proteins, and confirmed the palmitoylation of newly identified mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase. We postulate that covalent modification and perhaps inhibition of various mitochondrial enzymes by palmitoyl-CoA could lead to the metabolic impairments found in obesity-related diseases.

IT 946062-51-7
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (identification of palmitoylated mitochondrial proteins using a bio-orthogonal azido-palmitate analog that is derivatized with various tagged triarylphosphines)

RN 946062-51-7 CAPLUS
 CN Benzoic acid, 2-(diphenylphosphino)-4-[4-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-1-piperazinyl]carbonyl-, methyl ester (CA INDEX NAME)

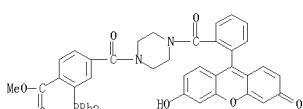


RE. CNT 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:669380 CAPLUS
 DN 147:271548
 TI Imaging Cell Surface Glycans with Bioorthogonal Chemical Reporters
 AU Chang, Pamela V.; Prescher, Jennifer A.; Hangauer, Matthew J.; Bertozzi, Carolyn R.
 CS Departments of Chemistry and Molecular and Cell Biology and Howard Hughes Medical Institute, University of California, Berkeley, CA, 94720, USA
 SO Journal of the American Chemical Society (2007), 129(27), 8400-8401
 CODEN: JACSAT; ISSN: 0002-7863
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 147:271848
 AB The visualization of glycans, as they function in living systems is important for understanding complex biological processes. Here, the authors applied the bioorthogonal chemical reporter technique to image cell surface glycans using multiple metabolic labels. The authors introduced two different chemical reporters into sialic acid and N-acetylgalactosamine (GalNAc) residues and then simultaneously imaged their associated cell surface glycans with fluorescent probes.

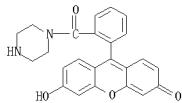
IT 946062-51-7
 RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses) (imaging cell surface glycans with bioorthogonal chemical reporters)

RN 946062-51-7 CAPLUS
 CN Benzoic acid, 2-(diphenylphosphino)-4-[4-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-1-piperazinyl]carbonyl-, methyl ester (CA INDEX NAME)



IT 455312-73-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (imaging cell surface glycans with bioorthogonal chemical reporters)

RN 455312-73-9 CAPLUS
 CN 3H-Xanthen-3-one, 6-hydroxy-9-[2-(1-piperazinylcarbonyl)phenyl]- (CA INDEX NAME)



RE. CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

DN 146:375083
 TI Advances in zinc sensors for studying zinc release events from pancreatic cells

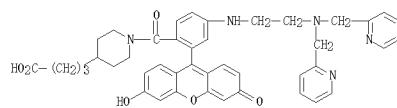
AU Rosenzweig, Zeev; Rosenzweig, Nitsa; Crivat, George A.
 CS Univ. of New Orleans, New Orleans, LA, 70148, USA
 SO Proceedings of SPIE-The International Society for Optical Engineering (2006), 6380(Smart Medical and Biomedical Sensor Technology IV), E38002/1-E38002/8
 CODEN: PSISDG; ISSN: 0277-786X

PB SPIE-The International Society for Optical Engineering
 DT Journal
 LA English

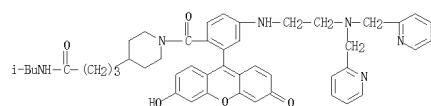
AB This paper describes the fabrication and characterization of the analytical probes of fluorescence-based zinc ion sensing glass slides and antibody based zinc sensors and their application in monitoring zinc release from beta pancreatic cells. The zinc ion indicator ZnAF-2 [6-[N-(N'-N'-bis (2-pyridylmethyl)-2-aminoethyl)-amino-3',6'-dihydroxy-spiro(isobenzofuran-1(3H),9'-[9H] xanthene)-3-one] was modified to include a sufficiently long linking aliphatic chain, with a terminal carboxyl functional group. The activated carboxyl-modified ZnAF-2 was conjugated to the amino silanized surface of glass slides and to free amino groups of the A2B5 antibody mols. The sensors were used to monitor zinc ion release events from glucose-stimulated pancreatic cells.

IT 900239-09-2 930599-13-6
 RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses) (advances in zinc sensors for studying zinc release events from pancreatic cells)

RN 900239-09-2 CAPLUS
 CN 4-Piperidinedibutanoic acid, 1-[4-[2-[2-(2-pyridinylmethyl)amino]ethyl]amino]-2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl- (CA INDEX NAME)



RN 930599-13-6 CAPLUS
 CN 4-Piperidinedibutanoic acid, 1-[4-[2-[2-(2-pyridinylmethyl)amino]ethyl]amino]-2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl-N-(2-methylpropyl)- (CA INDEX NAME)



RE. CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L4 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 20061250308 CAPLUS

DN 146164648

TI Creation of superior carboxyfluorescein dyes by blocking donor-excited photoinduced electron transfer

AU Mineno, Tomoko; Ueno, Tasuku; Urano, Yasuteru; Kojima, Hirotatsu; Nagano, Tetsuo

CS Graduate School of Pharmaceutical Sciences, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, 113-0033, Japan

SO Organic Letters (2006), 8(26), 5963-5966

CODEN: ORLEF7; ISSN: 1523-7060

PB American Chemical Society

DT Journal

LA English

OS CASREACT 146:164648

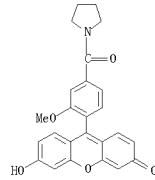
AB Carboxyfluoresceins are widely utilized as fluorescence labeling reagents, but we recently found that their emission intensity is markedly decreased after esterification. On the basis of our hypothesis that the fluorescence decrease is due to a donor-excited photoinduced electron transfer (d-PET) process, we have developed novel carboxyfluorescein derivs. in which the d-PET process is hampered, and the emission intensity is not decreased upon esterification. These novel dye derivs. display high quantum yields and are expected to be useful as labeling agents.

IT 876752-73-7

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses); CII (Chemical intermediate); CII (Chemical intermediate); preparation of superior carboxyfluorescein dyes by blocking donor-excited photoinduced electron transfer

RN 876752-73-7 CAPLUS

CN 3H-Xanthen-3-one, 6-hydroxy-9-[2-methoxy-4-(1-pyrrolidinylcarbonyl)phenyl]- (CA INDEX NAME)

RB.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006128808 CAPLUS

TI Membrane-anchoring fluorescent probe

IN Nagano, Tetsuo; Kojima, Hirotatsu; Osaki, Takashi
PA The University of Tokyo, JapanSO PCT Int. Appl., 20pp.
CODEN: PIXXD2

DT Patent

LA Japanese

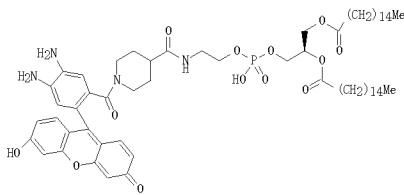
FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2006093252 A1 20060908 WO 2006-JP304054 20060305
 W: AE AG AL AM AT AU AZ BA BB BG BR BR BY BZ CA CH
 CG CO CR CU CZ DE DK DM DZ EC EG ES FI GE GR GD
 HE GH GM HR HU ID IL IN JP KR ME KG KG KN KP KR
 KZ LG LK LR LS LT LU LV LY MA MD MG MK MN MW MX
 MZ NA NG NL NO NZ OM PG PH PL PT RO RU SG SD SE
 SG SK SL SM SY TJ TM TN TR TZ UA UG US UZ VC
 VN YU ZA ZM ZW
 RW: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE
 IS IT LT LU LV MC NL PL PT RO SE SI SK TR BF BJ
 CF CG CI CM GA GN QO GW ML MR NE SN TD TG BW GH
 GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW AM AZ BY
 KG KZ MD RU TJ TM

PRAI US 2005-658177P F 20050304

GI



AB A membrane-anchoring fluorescent probe is provided, which is composed of a compound wherein a residue of a phospholipid is bound with a residue of a fluorescent probe compound via a linker (for example, a compound represented by the formula (I)). It has been shown that I function as a NO probe on HeLa cell membrane.

IT 908371-22-2P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(membrane-anchoring fluorescent probe)

RN 908371-22-2 CAPLUS

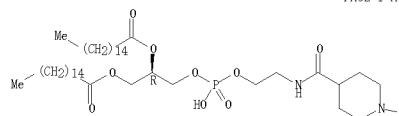
CN Hexadecanoic acid, (IR)-1-[[[2-[[1-[4,5-diamino-2-(3,6-dihydroxy-9H-xanthan-9-yl)benzoyl]-4-piperidinyl]carbonyl]amino]ethoxy]hydroxylphosphoryl]methyl-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

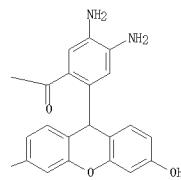
L4 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

(Continued)

PAGE 1-A



PAGE 1-B

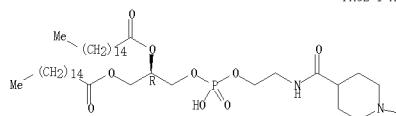
IT 908371-15-3P
 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(membrane-anchoring fluorescent probe)
 RN 908371-15-3 CAPLUS
 CN Hexadecanoic acid, (IR)-1-[[[2-[[1-[2-(3,6-dihydroxy-9H-xanthan-9-yl)benzoyl]-4-piperidinyl]carbonyl]amino]ethoxy]hydroxylphosphoryl]methyl-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

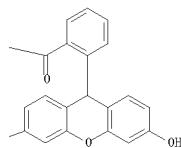
L4 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

(Continued)

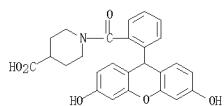
PAGE 1-A

 HO^-

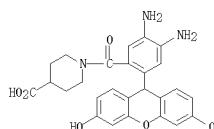
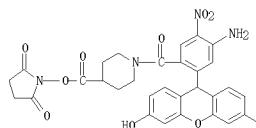
PAGE 1-B

IT 908371-13-1 908371-14-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(membrane-anchoring fluorescent probe)

RN 908371-13-1 CAPLUS

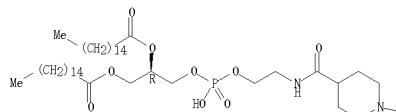
CN 4-Piperidinocarboxylic acid, 1-[2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]-
(CA INDEX NAME)

L4 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

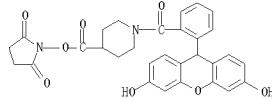
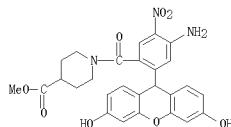
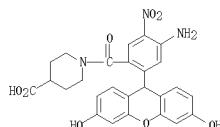
RN 908371-20-0 CAPLUS
CN 4-Piperidinocarboxylic acid, 1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-5-nitrobenzoyl]-, 2,5-dioxo-1-pyrrolidinyl ester (CA INDEX NAME)RN 908371-21-1 CAPLUS
CN Hexadecanoic acid, (1R)-1-[[[[[2-[[1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-5-nitrobenzoyl]-4-piperidinyl]carbonyl]amino]ethoxy]hydroxyphosphinyll]oxymethyl]-1,2-ethanediyl ester (9Cl) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

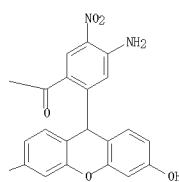
 HO^-

L4 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RN 908371-14-2 CAPLUS
CN 4-Piperidinocarboxylic acid, 1-[2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]-, 2,5-dioxo-1-pyrrolidinyl ester (CA INDEX NAME)IT 908371-16-4P 908371-17-5P 908371-18-6P
908371-20-0P 908371-21-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(membrane-anchoring fluorescent probe)RN 908371-16-4 CAPLUS
CN 4-Piperidinocarboxylic acid, 1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-5-nitrobenzoyl]-, methyl ester (CA INDEX NAME)RN 908371-17-5 CAPLUS
CN 4-Piperidinocarboxylic acid, 1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-5-nitrobenzoyl]- (CA INDEX NAME)RN 908371-18-6 CAPLUS
CN 4-Piperidinocarboxylic acid, 1-[4,5-diamino-2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]- (CA INDEX NAME)

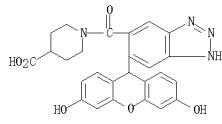
L4 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

IT 908371-19-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(membrane-anchoring fluorescent probe)

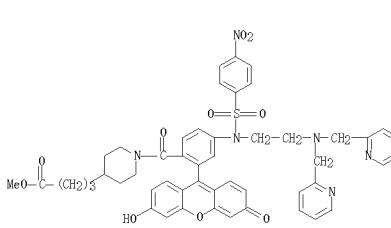
RN 908371-19-7 CAPLUS

CN 4-Piperidinocarboxylic acid, 1-[[5-(3,6-dihydroxy-9H-xanthen-9-yl)-1H-penzo[1,2-d]azol-6-yl]carbonyl]- (CA INDEX NAME)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

PAGE 1-A

L4 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:691184 CAPLUS
 DN 145:309590
 TI Fluorescence-Based Zinc Ion Sensor for Zinc Ion Release from Pancreatic Cells
 AU Crivat, Georgeta; Kikuchi, Kiyuya; Nagano, Tetsuo; Priel, Tsvia;
 Herschenson, Michael; Seckler, Israel; Rosenzweig, Nitsai; Rosenzweig, Zeev
 CS Department of Chemistry and the Advanced Materials Research Institute,
 University of New Orleans, New Orleans, LA, 70148, USA
 SO Analytical Chemistry (2006), 78(16), 5799-5804
 CODEN: ANCHAM; ISSN: 0003-2700
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 145:309590
 AB In this paper, the authors describe the synthesis and characterization of anal. properties of fluorescence-based zinc ion-sensing glass slides and their application in monitoring zinc ion release from beta pancreatic cells in cell cultures. To fabricate the sensors, the zinc ion indicator ZnAF-2 [6-[N⁺,N'-bis(2-pyridinylmethyl)-2'-amino]ethyl]amino-3',6'-dihydroxyspiro[isobenzofuran-1(3H),9'-9H]xanthene-3-one] was modified to include a sufficiently long linking aliphatic chain with a terminal carboxyl functional group. The recently synthesized ZnAF-2 zinc ion indicator provided high zinc ion selectivity in physiol. solns. containing millimolar levels of calcium and other possible interfering cations. The carboxyl-modified ZnAF-2 was conjugated to the activated surface of glass slides, which then served as zinc ion sensors. It was possible to grow pancreatic cells directly on the zinc-sensing glass slide or on a membrane placed on these glass slides. The sensors were used to monitor zinc ion release events from glucose-stimulated pancreatic cells. The study showed that the zinc ion sensors responded effectively to the release of zinc ions from pancreatic cells at the nanomolar level with high selectivity and rapid subsecond response time.
 IT 909259-15-0P
 RL: BUU (Biological use, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (immobilized; fluorescence-based zinc ion sensor for zinc ion release from pancreatic cells)
 RN 909259-15-0 CAPLUS
 CN 4-Piperidinebutanoic acid, 1-[4-[[2-[bis(2-pyridinylmethyl)amino]ethyl][[(4-nitrophenyl)sulfonyl]amino]-2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-, methyl ester (CA INDEX NAME)



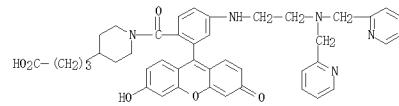
L4 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

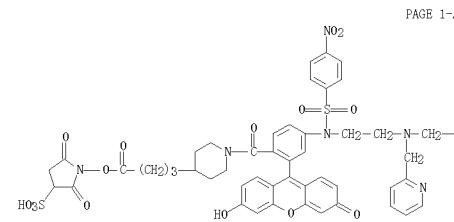


RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 AN 909259-09-2 CAPLUS
 RN 4-Piperidinebutanoic acid, 1-[4-[[2-[bis(2-pyridinylmethyl)amino]ethyl]-2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]- (CA INDEX NAME)



IT 909259-15-0P
 RL: BUU (Biological use, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (immobilized; fluorescence-based zinc ion sensor for zinc ion release from pancreatic cells)
 RN 909259-15-0 CAPLUS
 CN 4-Piperidinebutanoic acid, 1-[4-[[2-[bis(2-pyridinylmethyl)amino]ethyl][[(4-nitrophenyl)sulfonyl]amino]-2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester (CA INDEX NAME)

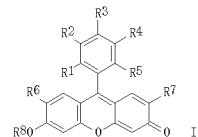


PAGE 1-A

L4 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:164346 CAPLUS
 DN 144:234605
 TI Fluorescein fluorescent labeling agents
 IN Nagano, Tetsuo; Urano, Yasuteru; Mineno, Tomoko; Ueno, Tasuku
 PA Daichi Pure Chemicals Co., Ltd., Japan
 SO PCT Int. Appl., 27 pp.
 CODEN: PIXXD2

DT Patent
 LA Japanese
 FAN.CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE
 PI WO 2006019105 A1 20060223 WO 2005-JP14983 20050817
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BW, BY, CZ, DE, DK, DM, DZ, EC, EG, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, IT, KE, KG, KM, KP, KR, LZ, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SG, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VG, VN, YU, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, BE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BP, BJ, CF, CG, CI, CM, GA, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BV, KG, KZ, MD, RU, TJ, TM
 PRAI US 2004-601986P P 20040817
 OS MARPAT 144:234605
 GI

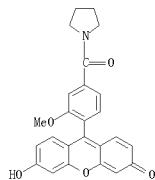


AB The fluorescent labeling agent exhibiting high fluorescence in a state bound to the substrate to be labeled, contains I (R1-4 = H, a monovalent substituent; R5 = H, a monovalent group exclusive of carboxy and sulfo; R6, R7 = H, halo; and R8 = H, alkylcarbonyl, alkylcarbonyloxyethyl) bonded with a labeling compound

IT 876752-73-7 CAPLUS
 IMT (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

TI 876752-73-7 CAPLUS
 CN 3H-Xanthen-3-one, 6-hydroxy-9-[2-methoxy-4-(1-pyrrolidinylcarbonyl)phenyl]- (CA INDEX NAME)

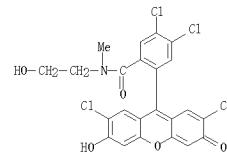
L4 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RE. CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
2005:698218 CAPLUS
DN 143:169183
TI Xanthene dyes
IN Reddington, Mark; Lytle, Matt
PA Bioscience Technologies, Inc., USA
SO U.S. Pat. Appl. Publ., 62 pp.
CODEN: USXXCO

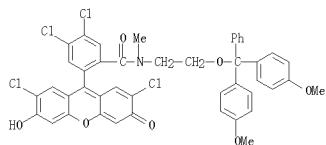
DT	Patent	LA	Published	FAN. CNT 2	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050170363	A1	20050804	US 2004-824175	20040413				
	US 7344701	B2	20080318						
	EP 1740100	A1	20070110	EP 2005-712902	20050204	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
	US 20080214811	A1	20080904	US 2008-36926	20080225				

PRAI US 2004-541686P P 20040203
US 2004-824175 A 20040413
WO 2005-US3627 W 20050204
OS AB The invention provides a novel class of xanthene dyes, some of which are functionalized to allow their coupling to conjugation partners of interest, e.g., biologics, toxins, and the like. Also provided are conjugates of the dyes, methods of preparing and using the dyes and their conjugates and kits including the dyes and their conjugates.

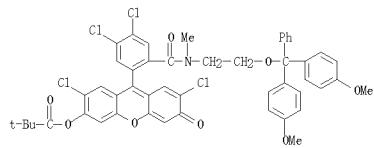
IT 861143-20-6 861143-22-8 861143-23-9
RU: RCT (Reactant); RACT (Reactant or reagent)
(xanthene dyes)RN 861143-20-6 CAPLUS
CN Benzamide, 4,5-dichloro-2-(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)-N-(2-hydroxyethyl)- (CA INDEX NAME)

RN 861143-22-8 CAPLUS
CN Benzamide, N-[2-[bis(4-methoxyphenyl)phenylmethoxyethyl]-4,5-dichloro-2-(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)-N-methyl- (CA INDEX NAME)

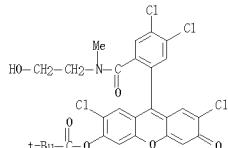
L4 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 861143-23-9 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 9-[2-[[[2-[bis(4-methoxyphenyl)phenylmethoxyethyl]methylamino]carbonyl]-4,5-dichlorophenyl]-2,7-dichloro-3-oxo-3H-xanthen-6-yl ester (CA INDEX NAME)

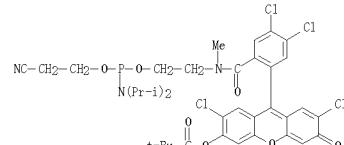


RN 861143-24-0 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2,7-dichloro-9-[4,5-dichloro-2-[(2-hydroxyethyl)methylamino]carbonyl]phenyl-3-oxo-3H-xanthen-6-yl ester (CA INDEX NAME)



RN 861143-25-1 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 9-[2-[[[2-[[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphinoloxyl]ethyl]methylamino]carbonyl]-4,5-dichlorophenyl]-2,7-dichloro-3-oxo-3H-xanthen-6-yl ester (CA INDEX NAME)

L4 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RE. CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2002:847025 CAPLUS
 DN 138:74690

TI Xanthamide fluorescent dyes

AU Gao, Jianxin; Wang, Puguang; Giese, Roger W.

CS Department of Pharmaceutical Sciences in the Bouve College of Pharmacy and Health Professions, Boston Institute and Chemistry Department Northeastern University, Boston, MA, 02115, USA

SO Analytical Chem., (2002), 74(24), 6397-6401

CODEN: ANCHAM; ISSN: 0003-2700

PB American Chemical Society

DT Journal

LA English

OS CASREACT 138:74690

AB Two derivs. of fluorescein, termed "xanthamides," were prepared from fluorescein, an inexpensive dye. Relative to fluorescein, which contains a 6-phenolic OH and a 2'-carboxyl, the first derivative contains a carboxymethyl ether at the 6-position and a secondary amide of dimethylamine at the 2'-position. The second derivative (I) contains a corresponding 6-Me ether and a secondary amide of isonicotinic acid at the 2'-position. Thus, both derivs. contain a single carboxyl group, making them monofunctional. I is much more photostable (about 10 times) than either fluorescein or BODIPY FL dye when exposed to ordinary light (tungsten light bulb). When tested for relative response in a capillary electrophoresis instrument fitted with a diode array detector (488 nm) and a broad band emission filter, I was found to be 4-fold less bright than fluorescein. Both xanthamides, consistent with prior literature on 6-alkylated fluorescein, exhibit relatively pH-independent fluorescence (pH 4-10 was tested here). Because they possess two absorbance maximums, the xanthamides can be excited over a broader wavelength range than fluorescein or BODIPY. These collective properties of the xanthamides will make them advantageous over fluorescein and BODIPY dyes for some applications.

IT 480067-76-38 480067-93-4P

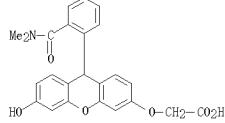
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(dye; preparation and fluorescence of xanthamide fluorescein derivative dyes)

RN 480067-76-3 CAPLUS

CN Acetic acid, 2-[19-[2-[(dimethylamino)carbonyl]phenyl]-6-hydroxy-9H-

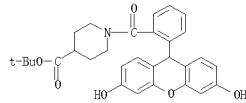
xanthen-3-yl]oxy]- (CA INDEX NAME)



RN 480067-93-4 CAPLUS

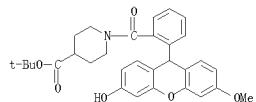
CN 4-Piperidinocarboxylic acid, 1-[2-(3-hydroxy-6-methoxy-9H-xanthen-9-yl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

L4 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



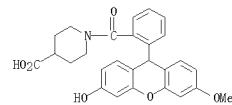
RN 480067-88-7 CAPLUS

CN 4-Piperidinocarboxylic acid, 1-[2-(3-hydroxy-6-methoxy-9H-xanthen-9-yl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RE. CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

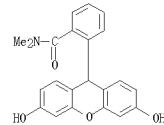


IT 442151-58-8P 480067-71-8P 480067-81-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation and fluorescence of xanthamide fluorescein derivative dyes)

RN 442151-58-8 CAPLUS

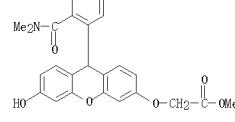
CN Benzamide, 2-(3,6-dihydroxy-9H-xanthen-9-yl)-N,N-dimethyl- (CA INDEX NAME)



RN 480067-71-8 CAPLUS

CN Acetic acid, 2-[19-[2-[(dimethylamino)carbonyl]phenyl]-6-hydroxy-9H-

xanthen-3-yl]oxy]- methyl ester (CA INDEX NAME)



RN 480067-81-0 CAPLUS

CN 4-Piperidinocarboxylic acid, 1-[2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

L4 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2002:539672 CAPLUS

DN 137:95164

TI Fluorescent xanthene derivative dyes, their production and their use

IN Gao, Jianxin; Giese, Roger W.

PA Northeastern University, USA

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002055112	A1	20020718	WO 2002-US801	20020110

PI	W 18: US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR	20040818	US 2003-250975	20030710
PRAI	US 20040664195	A1	20040818	
WO	2001-261710P	P	20010112	
WO	2002-US801	W	20020110	

OS MARPAT 137:95164

AB Secondary amide xanthene derivs., termed "xanthamides", and other xanthene derivs., are obtained as fluorescent dyes which can have much higher photostability than related dyes such as fluorescein and BODIPY-FL. Examples are presented in which the synthesis begins with fluoresceins or rhodamines. A diversity of xanthamide and related xanthene dyes can be prepared with a broad variation of physicochemical properties to enhance the usefulness of fluorescence in bio. and chemical anal., and in other areas. Xanthamides can also be used as indicators or quenchers of reactive oxygen or free radical species.

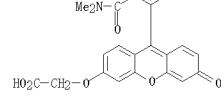
IT 442151-50-0P 442151-56-6P

RL: IMP (Industrial or manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(dye; production of fluorescent xanthene derivative dyes)

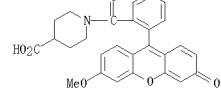
RN 442151-50-0 CAPLUS

CN Acetic acid, 2-[19-[2-[(dimethylamino)carbonyl]phenyl]-3-oxo-3H-xanthen-6-yloxy]- (CA INDEX NAME)



RN 442151-56-6 CAPLUS

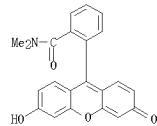
CN 4-Piperidinocarboxylic acid, 1-[2-(6-methoxy-3-oxo-3H-xanthen-9-yl)benzoyl]- (CA INDEX NAME)



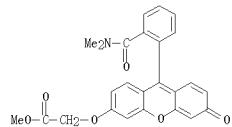
L4 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

IT 442151-46-4P 442151-48-6P 442151-52-2P
 442151-54-4P 442151-58-8P
 RL: IMP (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reagent or reagent)
 (Intermediate; production of fluorescent xanthene derivative dyes)

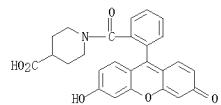
RN 442151-46-4 CAPLUS
 CN Benzamide, 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)-N,N-dimethyl- (CA INDEX NAME)



RN 442151-48-6 CAPLUS
 CN Acetic acid, 2-[9-[2-(dimethylamino)carbonyl]phenyl]-3-oxo-3H-xanthen-6-yl]oxy-, methyl ester (CA INDEX NAME)

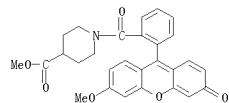


RN 442151-52-2 CAPLUS
 CN 4-Piperidinocarboxylic acid, 1-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]- (CA INDEX NAME)

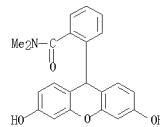


RN 442151-54-4 CAPLUS
 CN 4-Piperidinocarboxylic acid, 1-[2-(6-methoxy-3-oxo-3H-xanthen-9-yl)benzoyl]-, methyl ester (CA INDEX NAME)

L4 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 442151-58-8 CAPLUS
 CN Benzamide, 2-(3,6-dihydroxy-9H-xanthen-9-yl)-N,N-dimethyl- (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2002-505974 CAPLUS

DN 137-213089

TI Fluorescein-based pI markers for capillary isoelectric focusing with laser-induced fluorescence detection

AU Slais, Karel; Horka, Marie; Novackova, Jana; Friedl, Zdenek
 CS Institute of Analytical Chemistry, Academy of Sciences of the Czech Republic, Brno, CZ-61442, Czech Rep.

SO Electrophoresis (2002), 23(11), 1682-1688

CODEN: ELCOTD; ISSN: 0173-0836

PB Wiley-VCH Verlag GmbH

DT Journal

LA English

AB We prepared a series of low-mol.-mass fluorescent ampholytes with narrow pI range. These fluorescein-based ampholytes were detection compatible with laser-induced fluorescence (LIF) detection. The selected properties, important for their routine use as fluorescent pI markers, were examined. The pI values of new fluorescein-based pI markers were determined by capillary isoelectric focusing (CIEF) using currently available low-mol.-mass pI markers for CIEF with photometric detection. The examples of CIEF with fluorometric detection of new comodis, together with fluorescein isothiocyanate (FITC) derivatized proteins are presented.

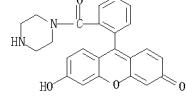
IT 455312-73-9 455312-75-1 455312-77-3

455312-79-5

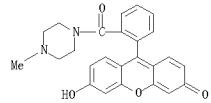
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (fluorescein-based pI markers for capillary isoelec. focusing with laser-induced fluorescence detection)

RN 455312-73-9 CAPLUS

CN 3H-Xanthen-3-one, 6-hydroxy-9-[2-(1-piperazinylcarbonyl)phenyl]- (CA INDEX NAME)

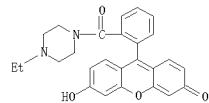


RN 455312-75-1 CAPLUS
 CN 3H-Xanthen-3-one, 6-hydroxy-9-[2-[(4-methyl-1-piperazinyl)carbonyl]phenyl]- (CA INDEX NAME)

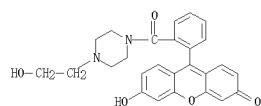


RN 455312-77-3 CAPLUS
 CN 3H-Xanthen-3-one, 9-[2-[(4-ethyl-1-piperazinyl)carbonyl]phenyl]-6-hydroxy- (CA INDEX NAME)

L4 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 455312-79-5 CAPLUS
 CN 3H-Xanthen-3-one, 6-hydroxy-9-[2-[[4-(2-hydroxyethyl)-1-piperazinyl]carbonyl]phenyl]- (CA INDEX NAME)



RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2002:483852 CAPLUS
 DN 137:201598

TI Peptide Dendrimers Based on Polyproline Helices
 AU Crespo, Laia; Sanclimens, Gloria; Montaner, Beatriz; Perez-Tomas, Ricardo;
 Royo, Miriam; Pons, Miquel; Albericio, Fernando; Giralt, Ernest
 CS Departament de Química Orgànica, Universitat de Barcelona, Barcelona,
 08028 Spain
 SO Journal of the American Chemical Society (2002), 124(30), 8876-8883
 CODEN: JACSAU; ISSN: 0002-7863

PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 137:201598

AB The authors present a new family of peptide dendrimers based on polyproline helices and *cis*-4-amino-L-proline as a branching unit. Dendrimers were synthesized by a convergent solid-phase peptide synthesis approach. The conformational transition between polyproline type I helix and polyproline type II helix was observed by CD in branched polyproline building blocks with more than 14 proline residues and in the resulting dendrimers. Both linear and dendritic polyprolines were found to be actively internalized by rat kidney cells. Preliminary results showed that the antibiotic ciprofloxacin formed complexes with branched polyproline chains in 99.5% propanol.

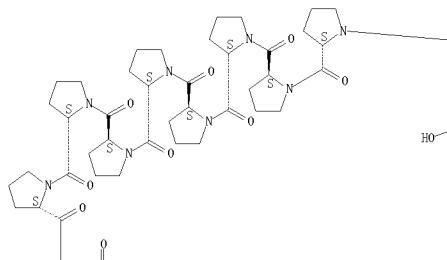
IT 452308-78-0
 RL: BR (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation of proline-based peptides and comparisons of their conformations with that of proline dendrimers)

RN 452308-78-0 CAPLUS

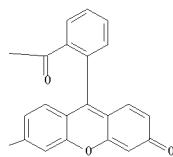
CN L-Proline-1-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-L-prolyl-L-prolyl-L-prolyl-L-prolyl-L-prolyl-L-prolyl-L-prolyl-L-prolyl-L-prolyl-L-prolyl-L-prolyl-L-prolyl-L-prolyl- (C1) (CA INDEX NAME)

Absolute stereochemistry.

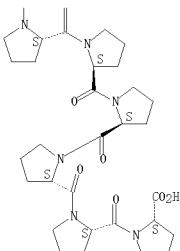
PAGE 1-A



L4 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 PAGE 1-B



PAGE 2-A



RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1987:587457 CAPLUS
 DN 107:187437

OSBP 107:29907a, 29910a
 TI Image-forming composition
 IN Sensui, Hideyuki; Gonda, Michihiko; Ohara, Toshio
 PA Hodogaya Chemical Co., Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF

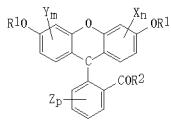
DT Patent

LA Japanese

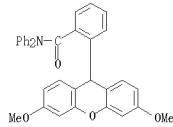
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 62094841	A	19870601	JP 1985-233545	19851021
JP 0505012	B	19930816		
PRAI JP 1985-233545		19851021		

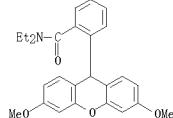
GI



L4 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 NAME)



RN 110943-62-1 CAPLUS
 CN Benzamide, 2-(3,6-dimethoxy-9H-xanthen-9-yl)-N,N-diethyl- (CA INDEX NAME)



AB An image-forming composition contains an oxidation color-rendering xanthene compound of the formula I (R₁ = C₁-8 alkyl, aralkyl; R₂ = C₁-8 alkoxy, lower alkyl, OPh-alkoxy, (alkyl, aryl, or aralkyl-substituted) NH₂; X, Y, Z = halo; n, m = 0-2; p = 0-4). A photosensitive paper prepared using the composition gives stable clear images, which when fixed, do not render color even after being exposed again. Thus, 3',6'-dimethoxyfluoran was dissolved in MeOH, then HCl gas was injected at 60° to obtain an ester, which was treated with NaBH₄ in MeOH to obtain 3,6-dimethoxy-9-(2-methoxycarbonyl)phenylxanthene (II; m.p. 131-132°). Then, 1,3-diphenylquazidine, poly(vinyl alc.), and 70% EtOH were mixed, applied onto a paper, and then a color-rendering solution containing II applied to obtain a photosensitive paper.

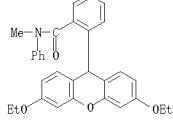
IT 110943-60-7 110943-63-0 110943-62-1

RL: USES (Uses)

(phototiming compns. containing, with improved image stability)

RN 110943-60-7 CAPLUS

CN Benzamide, 2-(3,6-diethoxy-9H-xanthen-9-yl)-N-methyl-N-phenyl- (CA INDEX NAME)



RN 110943-63-0 CAPLUS
 CN Benzamide, 2-(3,6-dimethoxy-9H-xanthen-9-yl)-N,N-diphenyl- (CA INDEX)

L4 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1984:158350 CAPLUS
 DN 100:158350
 OREF 100:24129a, 24132a
 TI Recording liquids
 PA Canon, K., Japan
 SO Jpn; Kokai Tokkyo Koho, 11 pp.
 CODEN JKXXAF

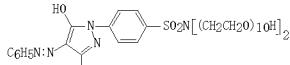
DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 58191772	A	19831109	JP 1982-75678	19820506
PRAI JP 1982-75678	B	19910624		19820506

GI

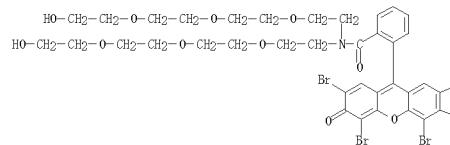


I

AB Jet-printing inks are prepared which contain dyes having substituents CONRR₁ or SO₂NRR₁ [R, R₁ = (CH₂CH₂O)_nH or (CH₂CH(OH))_nR₂, n = 0-12, R₂ = Me or CH₂OH]. Thus, an ink containing I [89519-64-2] 3, water 76, ethylene glycol 20, and LiCl 1 part had good storage properties and recording properties and gave clear images.

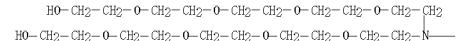
IT S9519-47-1 S9536-20-9
 RL TEM (Technical or engineered material use); USES (Uses)
 (dyes, for jet-printing inks)
 RN 89519-47-1 CAPLUS
 CN Benzamide, N,N-bis[2-[2-[2-(2-hydroxyethoxyethoxyethoxyethyl]-2-(2,4,5,7-tetrabromo-6-hydroxy-3-oxo-3H-xanthen-9-yl)-, sodium salt (1:1) (CA INDEX NAME)

PAGE 1-A



● Na

PAGE 1-B

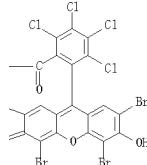


Br-

O=

● Na

PAGE 1-B



L4 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L4 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1982:521173 CAPLUS

DN 97:121173

OREF 97:20021a, 20024a

TI Fluorescent thyroid hormone conjugates and their uses

IN Khanna, Pyare L.; Ullman, Edwin F.

PA Syva Co., USA

SO U.S., 6 pp.

CODEN: USXXAM

DT Patent

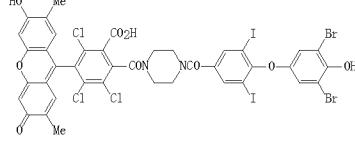
LA English

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 4329461	A	19820611	US 1980-111158	19800111
PRAI US 1980-111158		19800111		

OS CASREACT 97:121173; MARPAT 97:121173

GI



I

AB Novel polyhalothyronines or immunogenic mimetic analogs having Br at the 3', 5'-positions of the thyronine or mimetic analog were conjugated with a rigid linking group to a fluorescent compound. These conjugates can be used to detect thyroid hormones as well as proteins which specifically bind to thyroid hormones. For example, 25 μL of the fluorophore conjugate, N-4-(3', 5'-dibromo-4'-hydroxyphenoxyl)-3,5-diiodobenzoyl-N-(2', 7'-dimethyl-3'-hydroxy-6'-oxo-9'-(2', 5', 6''-trichloro-3'')-carboxyphenyl-4'-formyl)xanthene piperazine (I) [S3000-72-0] or N-4-(3', 5'-dibromo-4'-hydroxyphenoxyl)-3,5-diiodobenzoyl-N-(2', 7'-dimethyl-3'-hydroxy-6'-oxo-9'-(2', 5', 6''-trichloro-4'')-carboxyphenyl-3'-formyl)xanthene piperazine [S3000-73-1], 25 μL of thyroxine [51-48-9] standard solution, and 25 μL of the antithyroxine-quencher at dilns. of 1:40, 1:20, 1:10, 1:5, and 1:2.5 gave fluorescent readings of 1015, 1022, 899, 832, and 670, resp.

IT S3000-72-0 S3000-73-IP

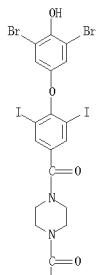
RL - (Preparation and thyroid hormone determination with)

RN S3000-72-0 CAPLUS
 CN Benzoic acid, 2,4,5-trichloro-6-[4-[4-[4-(2,5-dibromo-4-hydroxyphenoxyl)-2,5-diiodobenzoyl]-1-piperazinyl]carbonyl]-3-(6-hydroxy-2,7-dimethyl-3-oxo-3H-xanthen-9-yl)- (CA INDEX NAME)

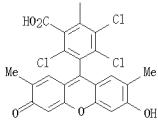
L4 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

(Continued)

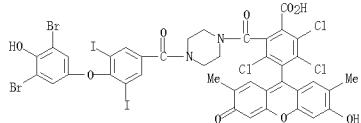
PAGE 1-A



PAGE 2-A



RN S3000-73-1 CAPLUS
 CN Benzoic acid, 2,3,5-trichloro-6-[[4-[4-(3,5-dibromo-4-hydroxyphenoxy)-3,5-diiodobenzoyl]-1-piperazinyl]carbonyl]-4-(6-hydroxy-2,7-dimethyl-3-oxo-3H-xanthen-9-yl)- (CA INDEX NAME)

L4 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1974:474803 CAPLUSDN 81:74803
 OREP 81:11895a, 11898aTI Mechanism of action of eosin-methylene blue agar in the differentiation of *Escherichia coli* and *Enterobacter aerogenes*
 AU Horvath, R. S.; Ropp, M. B.CS Dept. Biol., Bowling Green State Univ., Bowling Green, OH, USA
 SO International Journal of Systematic Bacteriology (1974), 24(2), 221-4

CODEN: IJSBA8; ISSN: 0020-7713

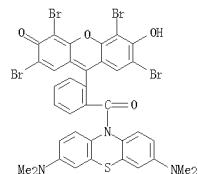
DT Journal

LA English

AB The mechanism involved in the action of eosin-methylene blue agar (EMB) in differentiating *E. coli* from *E. aerogenes* was investigated using prototrophic strains of these organisms and a Lac⁻ auxotroph, *E. coli* X-961. The final pH of the EMB agar resulting from growth of these organisms at the expense of lactose was shown to play a critical role in the differential action. An EMB complex, which formed under acidic conditions, may be involved in the differential action of this medium. The mol. weight of the complex indicated an eosin to methylene blue ratio of 1 to 1. Infrared and uv spectral data indicated the occurrence of an amide bond between the dyes when complexing occurred. On this basis, a mechanism for complexing of eosin and methylene blue, under acidic conditions, was proposed.IT 52946-21-1P
 RL: CN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 52946-21-1 CAPLUS

CN 10H-Phenothiazine-3,7-diamine, N,N,N',N'-tetramethyl-10-[2-(2,4,5,7-tetrabromo-6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl], sodium salt (9CI) (CA INDEX NAME)



● Na

=> d his full

(FILE 'HOME' ENTERED AT 10:08:23 ON 06 NOV 2008)

FILE 'REGISTRY' ENTERED AT 10:08:34 ON 06 NOV 2008

L1 STRUCTURE UPLOADED
 D
L2 2 SEA SSS SAM L1
 D SCAN
L3 54 SEA SSS FUL L1
 D 1-54 IDE CAN

FILE 'CAPLUS' ENTERED AT 10:10:32 ON 06 NOV 2008

L4 19 SEA ABB=ON PLU=ON L3
 D 1-19 BIB ABS HITSTR

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 NOV 2008 HIGHEST RN 1070859-34-5
DICTIONARY FILE UPDATES: 4 NOV 2008 HIGHEST RN 1070859-34-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

FILE CAPLUS

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 6 Nov 2008 VOL 149 ISS 19
FILE LAST UPDATED: 4 Nov 2008 (20081104/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

10/539, 790

11/10/2008

Page 31

<http://www.cas.org/legal/infopolicy.html>

=> log y COST IN U. S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	105.47	406.46
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-15.20	-15.20

STN INTERNATIONAL LOGOFF AT 10:13:08 ON 06 NOV 2008